

# PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

# PCT

To:

GILL JENNINGS & EVERY  
Broadgate House  
7 Eldon Street  
London EC2M 7LH  
UNITED KINGDOM

NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT AND  
THE WRITTEN OPINION OF THE INTERNATIONAL  
SEARCHING AUTHORITY, OR THE DECLARATION

DIARIED

(PCT Rule 44.1)

Applicant's or agent's file reference HMJ03737WO	Date of mailing (day/month/year) 11/11/2004
International application No. PCT/GB2004/003488	International filing date (day/month/year) 12/08/2004
Applicant  LIPOXEN TECHNOLOGIES LIMITED	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

**Filing of amendments and statement under Article 19:**  
 The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

**When?** The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

**Where?** Directly to the International Bureau of WIPO, 34 chemin des Colombettes  
 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until **30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Maria Howarth
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## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference HMJ03737WO	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/GB2004/003488	International filing date (day/month/year) 12/08/2004	(Earliest) Priority Date (day/month/year) 12/08/2003
Applicant  LIPOXEN TECHNOLOGIES LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

**4. With regard to the title,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

**5. With regard to the abstract,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

**6. With regards to the drawings,**

- a. the figure of the **drawings** to be published with the abstract is Figure No. \_\_\_\_\_

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☒ none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/003488

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C08B37/00 C07K1/107 A61K47/48

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08B C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, BIOSIS, IBM-TDB, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 329 028 A (ASHKENAZI AVI J ET AL) 12 July 1994 (1994-07-12) column 2, lines 14-16; figure 1	1-13, 16-22
Y	column 6, lines 21-45 column 13, line 39 - column 14, line 37 ----- -/--	14, 15

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

4 November 2004

Date of mailing of the international search report

11/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
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Authorized officer

Radke, M

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/003488

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>S. M. CHAMOW ET AL.: "Conjugation of Soluble CD4 without Loss of Biological Activity via a Novel Carbohydrate-directed Cross-linking Reagent" THE JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 267, no. 22, 5 August 1992 (1992-08-05), pages 15916-15922, XP002267698 USA * The abstarct and the reaction scheme on page 15918 * page 15617, left-hand column, paragraph 2 - right-hand column, paragraph 3 page 15920, right-hand column, paragraph 3</p>	1-13, 16-22
X	<p>WO 01/87922 A (GREGORIADIS GREGORY ; LIPOXEN TECHNOLOGIES LTD (GB)) 22 November 2001 (2001-11-22) cited in the application page 6, column 23 - page 7, column 6; claims 1,10,11,16; example 4</p>	7,8
X	<p>JAIN S ET AL: "Polysialylated insulin: synthesis, characterization and biological activity in vivo" BBA - GENERAL SUBJECTS, ELSEVIER SCIENCE PUBLISHERS, NL, vol. 1622, no. 1, 20 June 2003 (2003-06-20), pages 42-49, XP004433607 ISSN: 0304-4165 page 46; figure 1</p>	7,8
Y	<p>MACMILLAN D ET AL: "SELECTIVE IN VITRO GLYCOSYLATION OF RECOMBINANT PROTEINS: SEMI-SYNTHESIS OF NOVEL HOMOGENEOUS GLYCOFORMS OF HUMAN ERYTHROPOIETIN" CHEMISTRY AND BIOLOGY, CURRENT BIOLOGY, LONDON, GB, vol. 8, no. 2, 2001, pages 133-145, XP000998149 ISSN: 1074-5521 page 134, right-hand column, paragraph 2; figure 1</p>	14,15
Y	<p>DATABASE WPI Section Ch, Week 198013 Derwent Publications Ltd., London, GB; Class A60, AN 1980-23224C XP002267699 &amp; SU 675 053 A (AS USSR PROTEINS) 29 July 1979 (1979-07-29) abstract</p>	14,15

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## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2004/003488

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 965 532 A (BACHOVCHIN WILLIAM W) 12 October 1999 (1999-10-12) column 47, line 47 - column 48, line 23 -----	1

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/003488

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5329028	A	12-07-1994	US 6124435 A	26-09-2000
			US 5889155 A	30-03-1999
			US 5605791 A	25-02-1997
			US 6582928 B1	24-06-2003
			US 5929211 A	27-07-1999
WO 0187922	A	22-11-2001	AU 5853601 A	26-11-2001
			EP 1335931 A2	20-08-2003
			WO 0187922 A2	22-11-2001
			JP 2003533537 T	11-11-2003
			US 2003129159 A1	10-07-2003
SU 675053	A	25-07-1979	SU 675053 A1	25-07-1979
US 5965532	A	12-10-1999	AU 739241 B2	04-10-2001
			AU 3792797 A	21-01-1998
			CA 2258038 A1	08-01-1998
			CN 1229414 A	22-09-1999
			EP 0938498 A1	01-09-1999
			JP 2000515500 T	21-11-2000
			WO 9800439 A2	08-01-1998